

CLAIMS

1. A gray soda-lime silicate glass composition, characterized in that it comprises the following coloring agents with contents varying within the following weight limits:

| | | |
|---|---|----------------|
| 5 | Fe ₂ O ₃ (total iron) | 0.01 to 0.14% |
| | CoO | 40 to 150 ppm |
| | NiO | 200 to 700 ppm |

the NiO/CoO weight ratio being between 3.5 and 6 and the glass having an overall light transmission (TL_{D65}) under illuminant D₆₅ of between 20 and 60% measured for a
10 thickness of 6 mm.

2. The composition as claimed in claim 1, characterized in that the light transmission TL_{D65} is between 35 and 50%, preferably between 35 and 45%.

3. The composition as claimed in either of claims 1 and 2, characterized in that the glass has the following chromatic coordinates measured under illuminant D₆₅:

| | | |
|----|----|--|
| 15 | L* | varies from 50 to 85, preferably 65 to 75; |
| | a* | varies from - 4 to 0; and |
| | b* | varies from - 5 to + 3. |

4. The composition as claimed in one of claims 1 to 3, characterized in that the NiO/CoO weight ratio is between 3.5 and 4.5 and in that b* is between -5 and -1.

20 5. The composition as claimed in one of claims 1 to 3, characterized in that the NiO/CoO weight ratio is between 5 and 6 and in that b* is between -1 and +2.

6. The composition as claimed in one of claims 1 to 5, characterized in that it comprises the following colorants in contents that vary within the following weight limits:

| | | |
|----|---|-----------------|
| 25 | Fe ₂ O ₃ (total iron) | 0.07 to 0.12%; |
| | CoO | 70 to 90 ppm; |
| | NiO | 300 to 500 ppm. |

7. The composition as claimed in one of claims 1 to 6, characterized in that the redox varies from 0.1 to 0.3, preferably between 0.15 and 0.28.

8. The composition as claimed in one of claims 1 to 7, characterized in that it
30 contains no Se and no MnO₂.

9. The composition as claimed in one of claims 1 to 8, characterized in that it consists of a glass matrix that comprises the following constituents (in percentages by weight):

| | |
|--------------------------------|----------|
| SiO ₂ | 64 - 75% |
| Al ₂ O ₃ | 0 - 5% |
| B ₂ O ₃ | 0 - 5% |
| CaO | 5 - 15% |
| MgO | 0 - 10% |
| Na ₂ O | 10 - 18% |
| K ₂ O | 0 - 5% |
| BaO | 0 - 5%. |

5
10 **10.** A glass sheet formed by the float process on a bath of molten metal, or by rolling, with a chemical composition as defined by any one of claims 1 to 9.

11. A thermally toughened glass sheet having a composition as claimed in any one of claims 1 to 9 and having the following chromatic coordinates measured under illuminate D₆₅ for a thickness of 6 mm:

a* varies from - 2 to 0;

15 b* varies from - 10 to + 2, preferably -4 to 0.

12. The glass sheet as claimed in either of claims 10 and 11, characterized in that it has a thickness of between 2 and 19 mm.

20 **13.** The glass sheet as claimed in one of claims 10 to 12, characterized in that it furthermore includes at least one film of at least one metal oxide for reflecting infrared radiation.

14. Glazing, especially for buildings, characterized in that it comprises at least one glass sheet as claimed in one of claims 10 to 13.